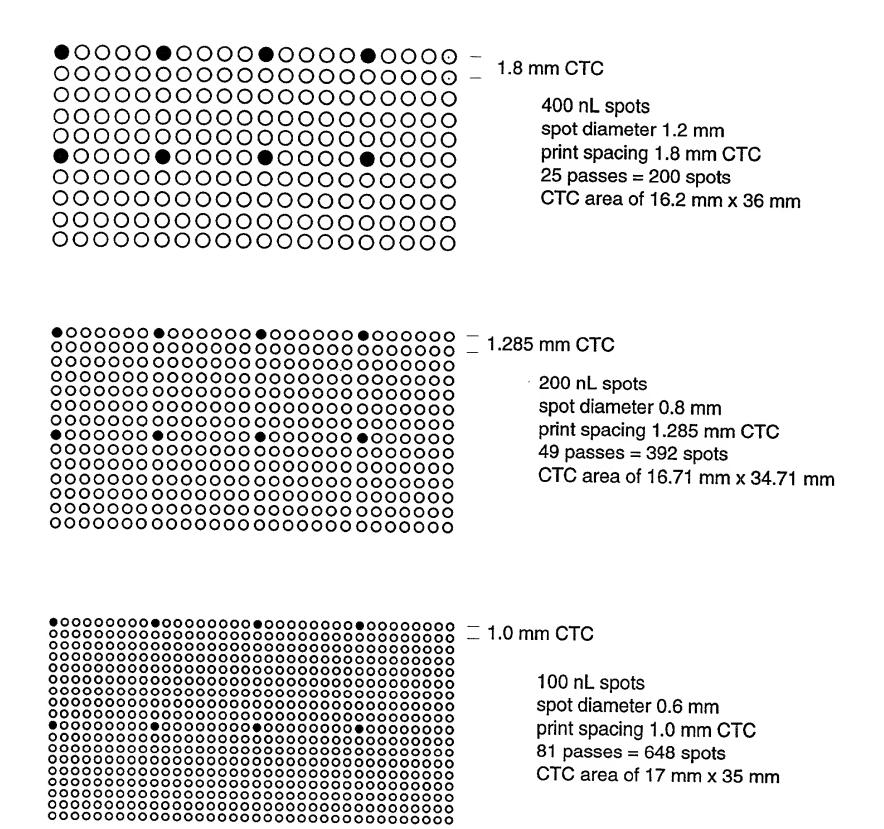
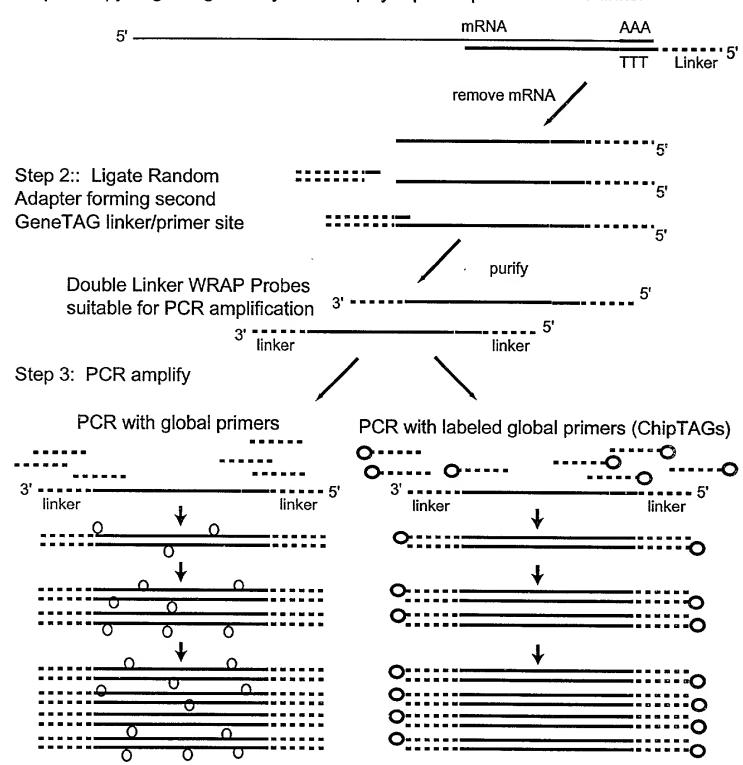


Fig. 2



Black dots represent the first print distribution with a 8 tip printhead having 2 rows of four tips. 50 nL spots similarly dispensed would achieve ~2500 gene spots in the same printing area.



Step 1: Copy target segment by RT with poly-T primer plus GeneTAG linker

Fig. 4

Hand spotted miniarray test with P-10 micropipetter and Cy3 and Cy5 labeled samples on polylysine coated slides spots ~3 mm CTC

Upper Row
600 nL, 400 nL, 200 nL
1.35mm, 1.2mm, .78 mm
Mid Row
800 nL, 400 nL, 200 nL
1.78mm, 1.2mm, .78mm
Lower Row
800 nL, 400 nL, 200 nL
1.78mm, 1.2mm, .78mm

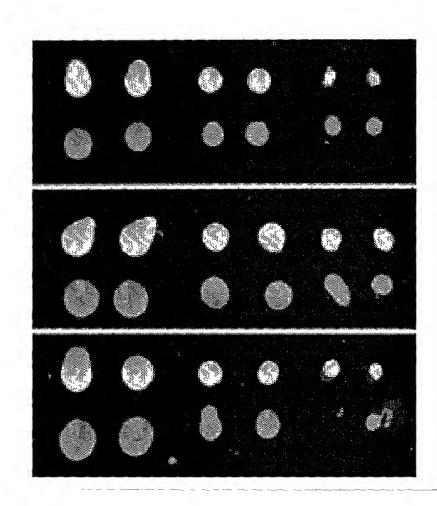


Fig. 5

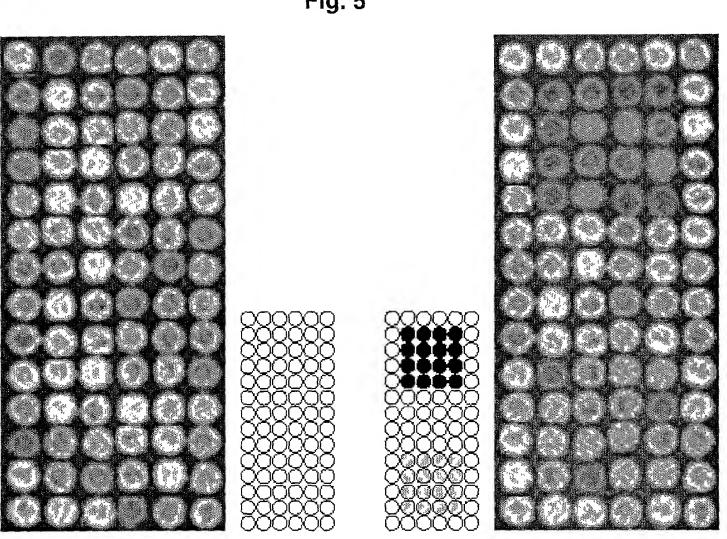


Fig. 6

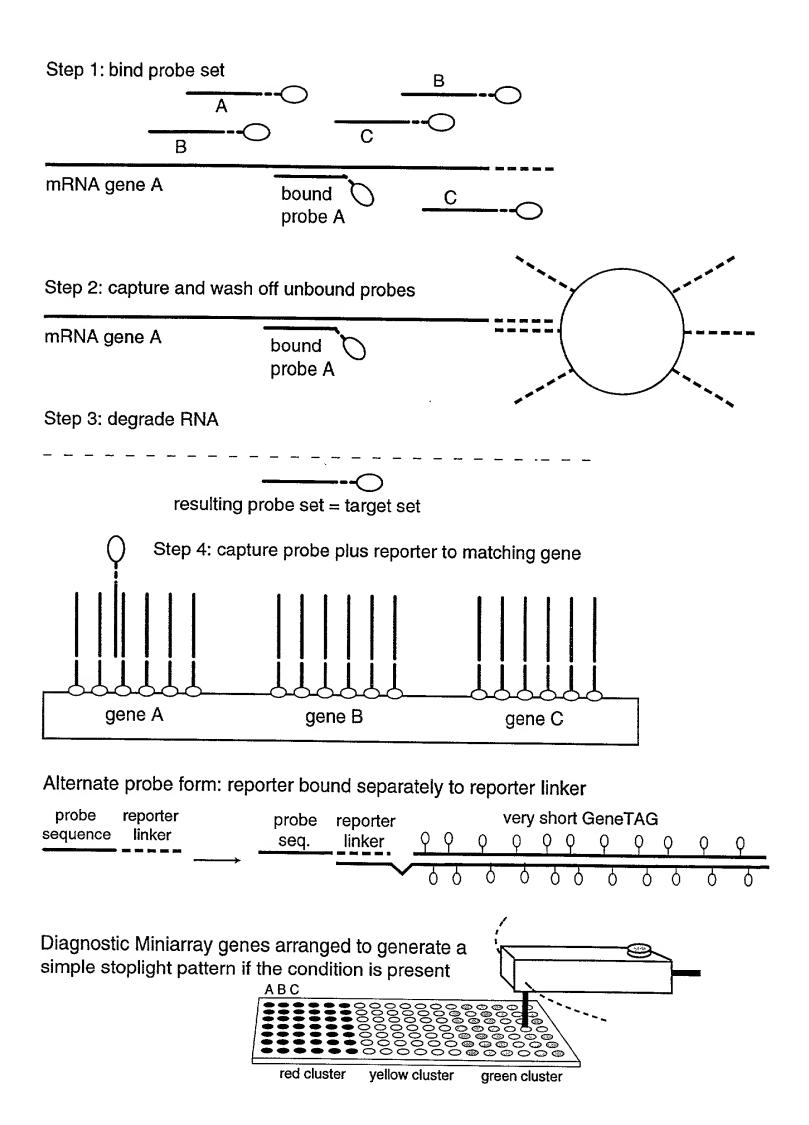


Fig. 7

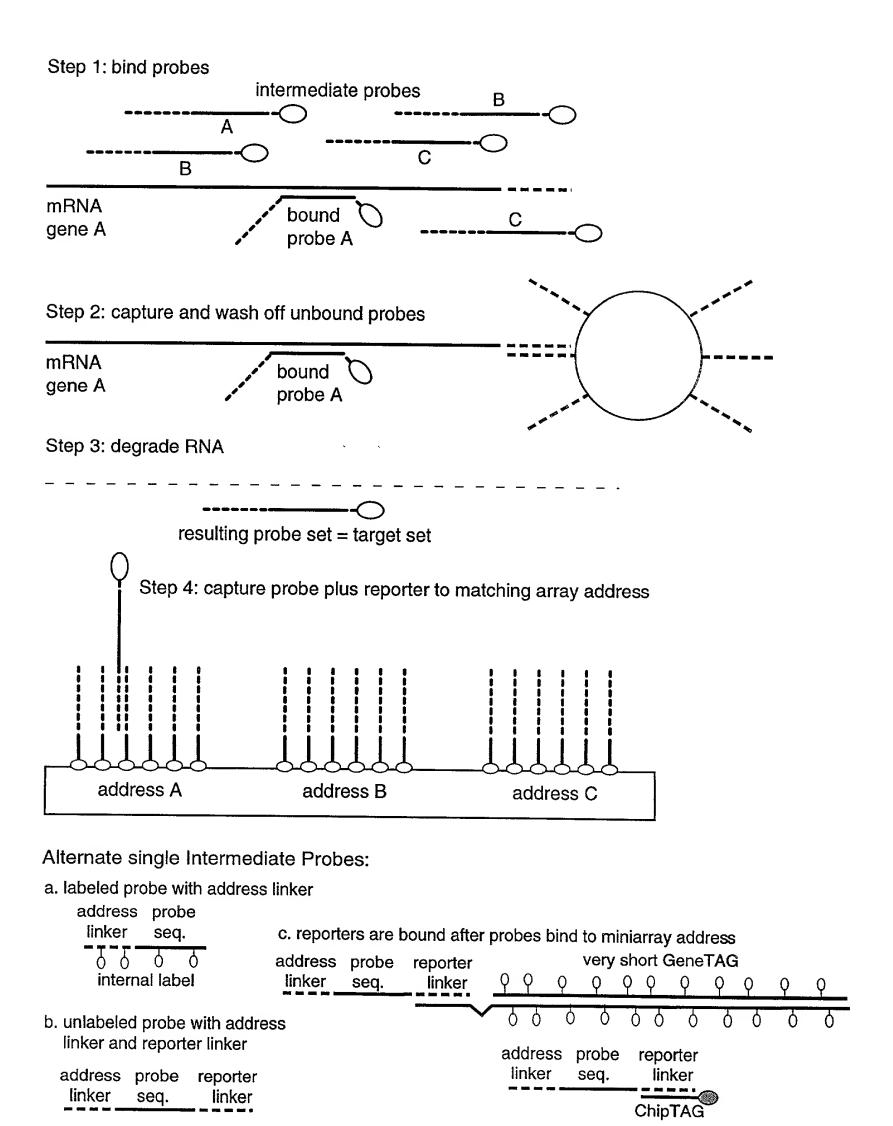
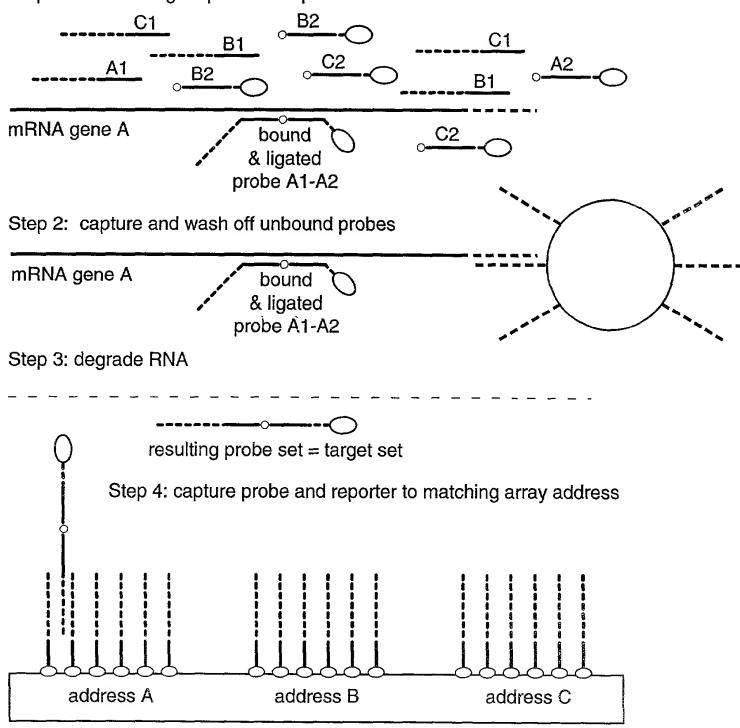


Fig. 8

Using intermediate half-probes ligated together on the target sequence:

Step 1: bind and ligate paired half-probes



Alternate Probe form: Reporter bound separately to reporter linker:

